



7B8

## PENTAGRID CONVERTER

7B8

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc voltsCurrent. . . . . 0.3<sup>□□</sup> . . . . . ampDirect Interelectrode Capacitances:<sup>○</sup>

Grid No.4 to All Other Electrodes (RF Input) 10.0 . . . μf

Plate to All Other Electrodes (Mixer Output) 9.0 . . . μf

Grid No.1 to All Other Electrodes except  
Grid No.2 (Osc. Input) . . . 5.0 . . . μfGrid No.2 to All Other Electrodes except  
Grid No.1 (Osc. Output) . . . 3.4 . . . μf

Grid No.4 to Plate . . . . . 0.2 max. μf

Grid No.4 to Grid No.2 . . . . . 0.2 max. μf

Grid No.4 to Grid No.1 . . . . . 0.2 max. μf

Grid No.1 to Grid No.2 . . . . . 0.9 . . . μf

<sup>○</sup> With external shield connected to cathode.

## Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length . . . . . 2-25/32"

Maximum Seated Length. . . . . 2-1/4"

Maximum Diameter . . . . . 1-3/16"

Bulb . . . . . T-9

Base . . . . . Lock-in 8-Pin

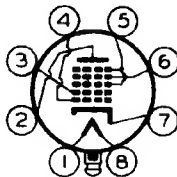
Basing Designation for BOTTOM VIEW . . . . . 8X

Pin 1 - Heater

Pin 2 - Plate

Pin 3 - Grid No.2

Pin 4 - Grid No.1

Pin 5 - Grid No.3,  
Grid No.5

Pin 6 - Grid No.4

Pin 7 - Cathode

Pin 8 - Heater

Plug - Base  
Shell*Maximum Ratings and Typical Operating Conditions for the  
7B8 are the same as those for Type 6A8*<sup>□</sup> Nominal voltage = 7.0 volts.<sup>□□</sup> Nominal current = 0.320 ampere.

JUNE 20, 1947

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA